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SECTION A - SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

1. This Modification 01 to Delivery Order 0011 under Contract DAAE07-01-D-B001 is a bilateral action.
2. The purpose of this Modification is for the procurement and delivery of 96 Tow Bar Sets and 82 each of Clevis Pin P/N 8668952, Quick Pin 5213744, and Tow Bar Clevis P/N 11660634.
3. Three Tow Bar legs will be pulled from the first 6 Tow Bar sets and shall be shipped by January 10, 2004 to the following for Government First Article Test:

Cranberry Run facility
1015 Old Philadelphia Drive
APG, MD 21001

ATTN: Randy Babcock
Care of Gretchen 410-272-1065
3. The remaining Tow Bar Sets and Clevis Pin, Clevis Tow Bar, and Quick Pin sets shall be delivered by February 15, 2004 to the following address:

Material Directorate
Bldg. 3038
Ft. Lewis, WA 98433

POC: Daryel Covington
253-966-4851
4. There will be a Start of Work meeting at the contractor's facility within one week of award of this modification.
5. The stated requirements in Section D are incorporated for this modification only.
6. The stated requirements in Section E are incorporated for this modification only.
7. CLIN 0302AD is established and funded in the amount of \$237,824.00 for the 96 Tow Bar Sets.
8. CLIN 0302AE is established and funded in the amount of \$4,756.00 for the 82 each Clevis Pins.
9. CLIN 0302AF is established and funded in the amount of \$476.00 for the 82 each Quick Pins.
10. CLIN 0302AG is established and funded in the amount of \$19,270.00 for the 82 each Tow Bar Clevis'.
11. As a result of this action, the total amount obligated under Delivery Order 0011 Modification 01 is \$262,326.00.
12. All other terms and conditions remain in full force and effect.

*** END OF NARRATIVE A 002 ***

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0302	SECURITY CLASS: Unclassified				
0302AD	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: 96 TOW BAR SETS-1/25 DEPLOY PRON: X14GX2CAX1 PRON AMD: 01 ACRN: AA AMS CD: 13519800000</p> <p>CLIN IS ADDED BY MODIFICATION 01</p> <p>(End of narrative B001)</p> <p>THREE TOW BAR LEGS FROM THE FIRST SIX SETS SHALL BE DELIVERED BY 10 JAN 04</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u> DLVR SCH PERFORM COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 96 15-FEB-2004</p> <p>\$ 237,824.00</p>	96	SE		\$ 237,824.00
0302AE	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: 82 EA CLEVIS PINS 1/25 DEPLOY PRON: X14GX2CBX1 PRON AMD: 01 ACRN: AA AMS CD: 13519800000</p> <p>CLIN ADDED BY MODIFICATION 01</p> <p>(End of narrative B001)</p> <p>UNIT PRICE FOR CLEVIS PIN \$58.00</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>	82	EA		\$ 4,756.00

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0302AF	<u>Deliveries or Performance</u> DLVR SCH <u>REL CD</u> <u>QUANTITY</u> PERF COMPL <u>DATE</u> 001 82 15-FEB-2004 \$ 4,756.00	82	EA		\$_____476.00
	<u>SERVICES LINE ITEM</u>				
	NOUN: 82 EA QUICK PINS,1/25 DEPLOY PRON: X14GX2CCX1 PRON AMD: 01 ACRN: AA AMS CD: 13519800000 CLIN ADDED BY MODIFICATION 01 (End of narrative B001) UNIT PRICE FOR QUICK PINS \$5.80 (End of narrative B002)				
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination				
	<u>Deliveries or Performance</u> DLVR SCH <u>REL CD</u> <u>QUANTITY</u> PERF COMPL <u>DATE</u> 001 82 15-FEB-2004 \$ 476.00				
	<u>SERVICES LINE ITEM</u>				
0302AG	<u>SERVICES LINE ITEM</u>	82	EA		\$_____19,270.00
	NOUN: 82 CLEVIS BARS, 1/25 DEPLOY PRON: X14GX2CDX1 PRON AMD: 01 ACRN: AA AMS CD: 13519800000 CLIN ADDED BY MODIFICATION 01 (End of narrative B001) UNIT PRICE FOR CLEVIS TOW BAR \$235.00 (End of narrative B002)				
	<u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<div>Deliveries or Performance</div> <div>DLVR SCHPERF COMPL</div> <div><div>REL CDQUANTITYDATE</div><div>0018215-FEB-2004</div></div> <div>\$19,270.00</div>				

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SECTION D - PACKAGING AND MARKING
SECTION D: PACKAGING AND MARKING

D.1 PRESERVATION AND PACKAGING

D.1.1 The preservation, packing, and marking requirements shall be accomplished in accordance with the performance requirements defined herein.

D.1.2 Preservation, packaging, packing, unitization and marking furnished by the supplier shall provide protection for a minimum of one year and meet or exceed the following requirements. It also provides for multiple handling, redistribution and shipment by any mode.

D.1.3 Items shall be free of dirt and other contaminants which would contribute to the deterioration of the item or which would require cleaning by the customer prior to use. Coatings and preservatives applied to the item for protection are not considered contaminants.

D.1.4 Items susceptible to corrosion or deterioration shall be provided protection by means of preservative coatings, volatile corrosion inhibitors, desiccants, water proof and/or water vapor proof barriers.

D.1.5 Items requiring protection from physical and mechanical damage (e.g. fragile, sensitive, material critical) or which could cause physical damage to other items, shall be protected by wrapping, cushioning, pack compartmentalization, or other means to mitigate shock and vibration to prevent damage during handling and shipment.

D.1.6 Unit package shall be so designed and constructed that it will contain the contents with no damage to the item(s) and with minimal damage to the unit pack during shipment and storage.

D.1.7 Unit package quantity shall consist of one (1) kit each.

D.1.8 Unit container shall be a wood container designed and fabricated to ensure domestic delivery of a complete kit. Container closure shall be in accordance with container specification. In addition to container closure procedures, ASTM D 3953 steel banding shall be applied widthwise at three (3) distinct but equal distant locations along lengthwise direction of wood container. Also, each wood container shall contain 3 wood skids for mechanical handling. Unit container is the shipping container.

D.1.9 The shipping container shall be cost effective and maintain a minimum cube to contain and protect the kit contents. The shipping container (including any necessary blocking, bracing, cushioning, or waterproofing) shall comply with the regulations of the carrier used and shall provide safe delivery to the destination at the lowest tariff cost. The shipping container shall be capable of multiple handling, stack at least four (4) high, and storage under favorable conditions (such as enclosed facilities) for a minimum of one year.

D.1.10 Shipments of identical kits going to the same destination shall be loaded to ensure stability, and to the greatest extent possible, provide a level top for ease of stacking. The load shall be contained in a manner that will permit safe handling during shipment and storage.

D.2 MARKING

D.2.1 Unit containers shall be marked in accordance with MIL-STD-129, Revision P, dated 15 Dec 2002, including bar coding. The contractor is responsible for application of special markings as discussed in the Military Standard regardless of whether specified in the contract/order or not. Special markings include, but are not limited to, Shelf-life markings, structural markings, and transportation special handling markings. The marking of pilferable and sensitive materiel will not identify the nature of the materiel.

D.2.2 Contractors and vendors shall apply identification and address markings with bar codes in accordance with this standard. A Military Shipment Label (MSL) is required for all shipments except contractor to contractor. The MSL will include both linear and 2D bar codes per the standard. DVD shipment documentation must also be marked with additional bar codes. The DD Form 250 or the commercial packing list shall have additional issue/receipt bar coding applied as per Direct Vendor Delivery Shipments in the standard (except for deliveries to DLA Distribution Depots, e.g. New Cumberland, San Joaquin, Red River, Anniston).

D.2.3 Contractor to contractor shipments shall have the address markings applied to the identification marked side of the exterior shipping container or to the unitized load markings. The following shall be marked "FROM: name and address of consignor and TO: name and address of consignee".

D.2.4 Military Shipping Label: Military Shipment Labels may be created using the Computer Automated Transportation Tool Military Shipment Label/Issue Receipt Release Document (CATT MSL/IRRD). See the web site: <http://www.asset-trak.com/catt/catt.htm>. The software may be downloaded at: http://www.asset-trak.com/catt/msl_irrd/msl_irrddownload.htm. Be sure to bookmark this page for future releases of CATT MSL/IRRD.

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*** END OF NARRATIVE D 001 ***

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SECTION E - INSPECTION AND ACCEPTANCE

Status	Regulatory Cite	Title	Date
E-1 ADDED	52.246-2	INSPECTION OF SUPPLIES--FIXED-PRICE	AUG/1996
E-2 ADDED	52.246-3	INSPECTION OF SUPPLIES - COST REIMBURSEMENT	MAY/2001
E-3 ADDED	52.246-5	INSPECTION OF SERVICES - COST-REIMBURSEMENT	APR/1984
E-4 ADDED	52.246-8	INSPECTION OF RESEARCH AND DEVELOPMENT -- COST-REIMBURSEMENT	MAY/2001
E-5 ADDED	52.246-16	RESPONSIBILITY FOR SUPPLIES	APR/1984

E-6 CHANGED 52.209-4 FIRST ARTICLE APPROVAL--GOVERNMENT TESTING SEP/1989

(a) The Contractor shall deliver 3 Tow Bar legs of the first 6 Tow Bar sets produced by January 10, 2004, if the DESIRED DELIVERY SCHEDULE Clause is in section F, as specified in the clause, or as otherwise proposed by the contractor and accepted by the Government, to the Government at the following address:

- 4-Material Directorate
- 5-Bldg. 3038
- 6-Ft. Lewis, WA 98433
- 7-POC: Daryel Covington 253-966-4851

for first article tests. The shipping documentation shall contain this contract number and the Lot/Number identification. The characteristics that the first article must meet are specified elsewhere in this contract.

(b) Within -8- calendar days after the Government receives the first article, the Contracting Officer shall notify the Contractor, in writing, of the conditional approval, approval, or disapproval of the first article. The notice of conditional approval or approval shall not relieve the Contractor from complying with all requirements of the specifications and all other terms and conditions of this contract. A notice of conditional approval shall state any further action required of the Contractor. A notice of disapproval shall cite reasons for the disapproval.

(c) If the first article is disapproved, the Contractor, upon Government request, shall submit an additional first article for testing. After each request, the Contractor shall make any necessary changes, modifications, or repairs to the first article or select another first article for testing. All costs related to these tests are to be borne by the Contractor, including any and all costs for additional tests following a disapproval. The Contractor shall furnish any additional first article to the Government under the terms and conditions and within the time specified by the Government. The Government shall act on this first article within the time specified in paragraph (b) above. The Government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule, or for any additional costs to the Government related to these tests.

(d) If the Contractor fails to deliver any first article on time, or the Contracting Officer disapproves any first article, the Contractor shall be deemed to have failed to make delivery within the meaning of the DEFAULT clause of this contract.

(e) Unless otherwise provided in the contract, the Contractor--

(1) May deliver the approved first article as a part of the contract quantity, provided it meets all contract requirements for acceptance and was not consumed or destroyed in testing; and

(2) Shall remove and dispose of any first article from the Government test facility at the Contractor's expense.

(f) If the Government does not act within the time specified in paragraph (b) or (c) above, the Contracting Officer shall, upon timely written request from the Contractor, equitably adjust under the CHANGES clause of this contract the delivery or performance dates and/or the contract price, and any other contractual term affected by the delay.

(g) The Contractor is responsible for providing operating and maintenance instructions, spare parts support, and repair of the first article during any first article test.

(h) Before first article approval, the acquisition of materials or components for, or the commencement of production of, the balance of the contract quantity is at the sole risk of the Contractor. Before first article approval, the costs thereof shall not be allocable to this contract for (1) progress payments, or (2) termination settlements if the contract is terminated for the convenience of the Government.

(i) The Government may waive the requirement for first article approval test where supplies identical or similar to those called for in the schedule have been previously furnished by the Offeror/Contractor and have been accepted by the Government. The Offeror/Contractor may request a waiver.

E-7 ADDED	TACOM	SUPPLEMENTAL STATEMENT OF WORK: FASTENER QUALITY ASSURANCE REQUIREMENTS	SEP/1992
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(a) This clause establishes quality assurance requirements for all threaded steel fasteners of Grade 5 and higher (as defined by SAE-J429) and metric fasteners with strength designations of 8.8 and higher (as defined by J-1199) that are to be used initems procured

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from either a Government or contractor owned Technical Data Package. It applies to fasteners received (i) from fastener manufacturers, (ii) from distributors, or (iii) as part of a subassembly for use in both new and repair items.

- (b) The contractor shall implement and maintain a fastener quality assurance program which:
 - (i) Assures the homogeneity of fastener lots. A homogeneous fastener lot is defined as one in which all of the fasteners are of the same size, type, grade, plating and manufacturer.
 - (ii) Ensures that individual fasteners are identified by a fastener manufacturer symbol (logo). The manufacturer's symbol (logo) shall be listed in MIL-HDBK 57, dated 29 Sep 89.
 - (iii) Provides objective quality evidence that the fasteners to be furnished under this contract meet all technical requirements.
- (c) To determine the conformance of the fastener lots with the homogeneity and identification requirements, a sample from each lot of fasteners will be taken in accordance with MIL-STD-105, dated 10 May 89, Inspection Level II, AQL 1.0, or equivalent, except that lots shall be accepted with zero (0) defects (C=0) and rejected with one (1) or more defects. Each sample shall be examined for the following:
 - (i) The grade and manufacturer symbol (logo) for each bolt in the lot sample shall be the same.
 - (ii) Threads shall be examined to assure conformity to requirements.
 - (iii) Plating (when specified) shall be examined to assure complete coverage.
- (d) Objective quality evidence that fasteners meet all technical requirements shall consist of either:
 - (i) Favorable chemical, core hardness, plating and tensile test data provided by the manufacturer or supplier of a fastener lot which is directly traceable to that lot. Chemical tests shall include, as a minimum, percent by weight of the following elements: carbon, manganese, phosphorus and sulfur;
 - or
 - (ii) Favorable results of chemical and core hardness tests performed by the contractor or a subcontractor on sample(s) taken from the lot. Sampling for chemical, plating and core hardness testing shall be in accordance with MIL-STD-105, Level S-2, AQL 1.0 or equivalent. Chemical tests shall include, as a minimum, percent by weight of the following elements: carbon, manganese, phosphorus and sulfur.
- (e) For item(s) procured using a Government Technical Data Package, Grade 8.1 or 8.2 fasteners are not an acceptable substitute for Grade 8 fasteners.
- (f) Commercial items, defined as an end item or component of an end item whose sales volume to the general public is greater than 50% of the items produced, will be deemed to meet the requirements of this clause if the contractor has a current vendor control policy with regard to fasteners.

Note: During maintenance or repair, the Government will use Grade 8, zinc plated bolts from Government stocks as replacements for any Grade 5 or Grade 8.2 bolt used in commercial items.

(End of clause)

E-8 ADDED	52.211-4016	CARC PAINT-PRETREATMENT REQUIREMENTS FOR FERROUS AND GALVANIZED	SEP/2002
	(TACOM)	SURFACES	

(a) Ferrous and galvanized surfaces shall be cleaned and pretreated with a Type 1, microcrystalline, zinc phosphate system per TT-C-490. Alternate pretreatment systems for ferrous substances must meet the performance tests specified in paragraphs 3.5.7, 3.5.8, 4.2.7, and 4.2.8 of TT-C-490. Corrosion resistance tests will be conducted on a monthly basis (two test coupons) after the process has been found to be in statistical control. Process control tests for alternative systems must ensure that the process remains in control and must be documented and approved by TACOM. Testing must be performed on the same substrate and the same thickness of primer minus topcoat used in production. Unless otherwise specified, MIL-P-53022 and -53030 primers shall be salt spray tested for 336 hours. All electrocoat primers shall be tested for 1000 hours. Test coupons shall be scrapped with a one inch (approximate) metal blade such as a putty knife between 24 and 168 hours after removal from the neutral salt spray cabinet for coupon evaluation. Any inorganic crystalline pretreatment is limited to a maximum build equivalent of 500 mg. per square foot to minimize chipping of the CARC system. All TT-C-490, zinc phosphate pretreatment systems must be documented and approved by the procuring activity prior to use. The procedure containing all the elements specified in paragraph 3.2 of TT-C-490 shall be submitted to the procuring activity no less than 45 days prior to use. Qualification will consist of verification that the process with its controls can meet the performance requirements in the specification. The performance of alternate systems must be demonstrated and approved by the procuring activity. If the TT-C-490 Type 1 system has not been previously approved by TACOM, it must be documented and submitted for approval as specified in the specification.

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Zinc phosphate systems for galvanized substrates require separate qualification. A list of TACOM approved facilities is available at <http://contracting.tacom.army.mil/engr/eng.htm>. These facilities are capable of meeting the performance requirements in the specification.

A list of previously qualified zinc phosphate application facilities is available from TACOM, Materials Engineering Team, (810) 574-5083. Requalification of the process will be required if the process is changed outside the limits defined in the TACOM letter of system acceptance provided to the application facility.

(b) Qualification of pretreatment systems for galvanized substrates shall be performed using Accelerated Corrosion Test protocol contained in GM 9540P, Method B, rather than salt spray. Test coupons with primer only shall be cured for seven days, and scribed thru the primer. After 40 cycle test exposure, the test coupons shall be scraped at a 30 degree contact angle (approximate) with a one inch (approximate) metal blade, such as a putty knife, both parallel and perpendicular to the scribe. There shall be no more than 3 mm. of rust creep (zinc corrosion products), blistering, or loss of paint adhesion from the scribe line and no more than 5 blisters in the field with non greater than 1 mm. This test shall be performed at two month intervals (two test coupons) to ensure that the process is in control. An alternative test for verifying process control is GM 9511P for 10 cycles.

(c) Performance tests for process control are highly dependent on the type, thickness, and VOC level of the organic coating (primer) film and its adhesion to the substrate. Any change to the solvents used in the primer or changing the brand of primer will require retesting of the system. The test coupons must duplicate the production painting process as closely as possible. Primer test coupons shall represent both the minimum and maximum nominal dry film thickness. Due to the wide variation in zinc thickness with the hot dip galvanizing process, the dry film thickness of the primer will be verified with a Tooke gage or equivalent for the purpose of production and process control.

(d) The use of vinyl wash primer (DOD-P-15328) is prohibited due to its hexavalent chromium content and high VOC level.

[End of Clause]

E-9 CHANGED 52.211-4030 (TACOM)	BASIC APPLICATION AND TESTING REQUIREMENTS FOR CHEMICAL AGENT RESISTANT COATINGS (CARC) ON METALLIC SURFACES	JAN/2003
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(a) Scope: The requirements contained herein apply whenever any or all of the following specifications are cited in the contract: MIL-C-46168, MIL-C-53039, MIL-PRF-22750, or MIL-DTL-64159.

(b) CARC Primers: The preferred CARC primer for all applications is cathodic, epoxy electrocoat per MIL-C-53084. This primer can be directly substituted whenever MIL-P-53022 or MIL-P-53030 is specified on a drawing or specification. The dry film thickness table below contains mandatory minimum and maximum dry film thickness requirements. Failure of production painted hardware to comply with these ranges will dramatically impact the corrosion resistance and/or chip resistance of the CARC coating system. If the contractor does not possess the personnel or equipment to meet these mandatory thickness requirements, then cathodic epoxy electrocoat must be used. Any part that has rust, heat treat or mill scale must be abrasive blasted prior to the application of any coating. Select powder coat primers which have 0.0 VOCs and 0.0 HAPS can also be used as a direct replacement for MIL-P-53022 and MIL-P-53030 primers. These powder coat primers, however, can only be applied by TACOM-approved applicators. The qualification and application of these primers is controlled by "Performance Standard for Combat Grade Powder Coat Paint - U.S. Army - TACOM" and is available at <http://contracting.tacom.army.mil/engr/eng.htm>

(c) CARC Application: The dip application of any coating listed in the table below (with the exception of epoxy electrocoat which is specifically designed for dip application) is prohibited.

(d) End-Item Inspection. After the complete paint finish has been applied and cured* (See note below), the Contractor shall test and inspect two units per lot for (i)workmanship, (ii) total paint film thickness and (iii) paint adhesion. Unless otherwise agreed to between the Contractor and the cognizant Government quality assurance representative, a lot shall be defined as all units submitted for final Government acceptance at one time. The use of test panels in lieu of actual production units is prohibited. At final inspection, the cumulative total paint film thickness of pretreatment, primer, and topcoat shall at a minimum conform to the sum of the minimum thicknesses for individual elements of the paint finish as specified in Table I herein. Sufficient locations shall be spot-checked to ensure proper workmanship and paint thickness uniformity. The size and configuration of the unit as well as the number of vendors responsible for the paint finish of component parts shall be taken into consideration in determining the number of locations to be checked. The specific number of test locations shall be agreed to by the cognizant Government quality assurance representative in advance. In addition, two locations on each sample unit shall be selected conduct the scribe tape test. The test locations shall be routinely varied among the following:

- (1) Directly adjacent to a weld.
- (2) On or directly adjacent to a machine cut or sheared edge.
- (3) On any mechanically formed surface when lubricants/drawing compounds were used.

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(4) On paint touch-up areas.

The precise location for each scribe tape shall be in an inconspicuous location that has been accepted by the cognizant Government quality assurance representative before the test is conducted.

Upon completion of the scribe tape test, the scribe marks shall be feathered into the adjacent area and touched up with the required top coat so that the tested area again conforms to the applicable minimum specified in Table I herein.

*NOTE: The complete paint finish is defined as the pretreatment, primer, and topcoat applied to the substrate. Curing of the complete paint finish is dependent upon temperature, humidity, and paint film thickness. The time necessary to achieve sufficient adhesion to pass the scribe tape test must be determined by each facility. For purposes of this test, curing at ambient temperature will take 24 days. To accelerate the curing for purposes of product acceptance, the following procedure may be followed: Cure at 190 to 210 degrees F. for three hours (this is time at temperature and is therefore material thickness dependent), followed by 7 days at 65 degrees F. minimum.

(e) Test Methods:

(1) Film Thickness. Film thickness shall be verified with a nondestructive film gage. The gage shall be suitable for measurements over the applicable substrate material and shall have sufficient accuracy to ensure compliance to the thickness limitations. The gage shall be capable of being calibrated. If no other calibration specification or requirement is identified elsewhere in this contract, then the gage shall be calibrated in accordance with ISO 10012.

(2) Scribe Tape Test. The following test procedure shall be followed. The test surface shall be sufficiently warm and dry to ensure adhesion of the tape. All dimensions cited in this Scribe Tape Test description are approximate:

(a) Scribe four one-inch lines completely through the paint finish to the substrate, one sixteenth to three thirty-seconds of an inch apart.

(b) Scribe four additional one-inch lines, completely through the paint finish, one sixteenth to three thirty-seconds of an inch apart, rotated 90 degrees with respect to the first set of lines. The resulting pattern shall contain nine squares.

(c) Press a length of A-A-1830, A-A-884, or any commercially available tape with a minimum adhesion rating of 45 oz. per inch of width firmly over the scribed pattern, rubbing out all air pockets.

(d) Wait ten seconds, minimum. Grasp a free end of the tape and at a rapid speed strip it from the paint surface by pulling the tape back upon itself at 180 degrees.

NOTE: The above two tests are not a substitute for corrosion test such as neutral salt spray or accelerated corrosion tests which verify coating durability.

(f) Acceptance Criteria:

(1) Film Thickness. All applicable surfaces shall have complete paint coverage. A minimum of 75% of the applicable surfaces of each test unit shall meet the minimum, cumulative dry film thickness requirements. Failure of either test unit shall result in rejection of the production lot that it represents.

DRY FILM THICKNESS TABLE

SPECIFICATION	DRY FILM THICKNESS (Mils) (MANDATORY RANGE)
DOD-P-15328*	0.3 - 0.5
MIL-PRF-23377	1.0 - 1.5
MIL-P-53022, Type I	1.0 - 2.5
MIL-P-53022, Type II	1.5 - 2.5
MIL-P-53030	1.5 - 2.5
MIL-P-53084	0.8 - 1.5
MIL-C-22750	1.3 - 2.5
MIL-C-46168	1.8 MINIMUM
MIL-C-53039	1.8 MINIMUM
MIL-DTL-64159	1.0 MINIMUM

* May not be allowed per contract due to VOC and hexavalent chromium content.

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(2) Scribe Tape Test (Adhesion). The removal of two or more complete squares of top coat, or top coat-primer-pretreatment coating, from either test unit constitutes test failure and the production lot from which it comes is rejected. Removal of overspray does not constitute test failure.

NOTICE: The scribe tape test is designed to detect any major deficiency in the paint application process that would affect the durability of the CARC finish. Typical causes of failure are:

- (a) Inadequate cleaning of the substrate.
- (b) Contamination of the surface between coatings.
- (c) Excessive paint film thickness in a single coating application.
- (d) Application of a coating over a previous coating which has not been adequately cured.

[End of clause]

E-10 ADDED 52.211-4069 WELDING INSPECTION REQUIREMENTS MAR/2001
(TACOM)

(a) INSPECTION: As the contractor, during performance of this contract you will verify weld quality and workmanship using qualified inspectors trained to perform these inspection functions. Acceptable qualification of your inspectors may be based on:

- (1) current or previous certification as an AWS Certified Welding Inspector; or
- (2) current or previous certification by the Canadian Welding Bureau (CWB); or

(3) inspection performed by an engineer or technician who is competent in the use of weld inspection techniques and equipment, on the basis of (i) formal training or (ii) experience, or both, in metals fabrication, inspection, and testing.

(b) NON BALLISTIC VISUAL INSPECTION. You will perform all non-ballistic visual inspections of weld quality and workmanship for structural steel in accordance with Section 6 of AWS D1.1-96. For structural aluminum, you may perform non-ballistic visual inspections of weld quality and workmanship using the guidelines given in MIL-STD-370A, dated 21 Sep 93.

(c) BALLISTIC VISUAL INSPECTION. You will perform all ballistic visual inspections in accordance with section 6 of the UDLP/TACOM Ground Combat Vehicle Code--Aluminum, dated July 1996. Copies of this document can be obtained by written request to:

Commander, US Army Tank-automotive and Armaments Command
ATTN: AMSTA-TR-E/Materials
Warren, MI 48397-5000

[End of Clause]

E-11 ADDED 52.246-4024 SUBSTITUTING COMMERCIAL TEST RESULTS FOR REQUIRED CONTRACT TESTS APR/2000
(TACOM)

(a) GENERAL. At your request, we may delete all or some of the Government or contractor conducted tests required by this contract or order, under the following conditions:

- (1) You have (or your supplier has) previously supplied the identical item to us and we've accepted it, or:
- (2) You have commercial test reports, performance data, analytical data, or vendor reports demonstrating that the item you will be furnishing us meets the contract requirements.

(b) HOW TO SUBMIT A TEST-DELETION REQUEST.

(1) BEFORE CONTRACT AWARD - Submit your request along with your offer in response to our solicitation. Make sure that your offer includes an alternate price (that reflects how your offered price would change if we approve your request to delete the specified tests). If we approve your request to delete test requirements or substitute commercial testing procedures, we will evaluate your offer at the alternate price submitted with your request. If you don't submit an alternate price with your request, we'll evaluate your offer at the price you indicated in the Schedule. No adjustments will be made to the price after contract award.

(2) AFTER CONTRACT AWARD - Send your request to the buyer identified on the face page of the contract within 45 days after

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contract award.

(3) ALL REQUESTS MUST -

- identify the test(s) you want deleted;
- state the basis for your request;
- include a list of configuration changes made;
- demonstrate that you meet the conditions in paragraph (a)(1) or (a)(2) of this clause; and
- include an alternate price per paragraph (b)(1) above, if you make your request prior to award; or
- include proposed amount of equitable adjustment, if you make your request after award.

(c) SUPPORTING DATA. If we agree to delete a test or tests, you must keep the data you used to support your request for four years from the day we approved your request. You must provide us with such data if we ask for a copy.

(d) CONTRACT ADJUSTMENT. If we agree to delete a test or tests after contract award, we may negotiate an equitable adjustment in the contract price. Any such negotiation will be conducted using the rules given in the CHANGES--FIXED PRICE clause, FAR 52.243-1.

[End of Clause]

E-12 ADDED 52.246-4028 INSPECTION POINT: ORIGIN FEB/1994

(TACOM)

We will inspect the supplies as described elsewhere in this solicitation/contract before acceptance. Fill-in the location, contractor's or subcontractor's plant, where origin inspection will occur.

CONTRACTOR'S PLANT:

(Name)

(Address) (City) (County) (State) (Zip)

SUBCONTRACTOR'S PLANT:

(Name)

(Address) (City) (County) (State) (Zip)

[End of Clause]

E-13 ADDED 52.246-4029 ACCEPTANCE POINT: ORIGIN OCT/2002

(TACOM)

We will accept these supplies at the address or addresses designated in the Section E clause entitled INSPECTION POINT.

[End of Clause]

E.1 Inspection Procedures

- E.1.1 In-Process Inspection: During fabrication of the first production Tow Bar, in-process inspections shall be performed by the contractor and witnessed by government representatives, to evaluate conformance to the technical requirements of this contract. Evaluation of process controls and workmanship shall be made at this time. During the inspection, the contractor shall have available for review and evaluation all appropriate records and documentation, including, but not limited to: quality manual (or appropriate document), work instructions, process procedures (such as welding and painting), inspection records, material certifications traceable to the materials used, and welder qualification records.
- E.1.2 Contractor First Piece Inspection: One of the first five (5) production Tow Bars produced shall be selected at random by the government and subjected to a First Piece Inspection by the contractor. This inspection shall be conducted to verify conformance to all technical requirements of the contract, including dimensional and physical characteristics, welding conformance, finish application, and vehicle physical interface.

<p style="text-align: center;">CONTINUATION SHEET</p>	<p style="text-align: center;">Reference No. of Document Being Continued</p> <p style="text-align: center;">PIIN/SIIN DAAE07-01-D-B001/0011 MOD/AMD 01</p>	<p style="text-align: center;">Page 14 of 15</p>
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E.1.2.1 At least 20 calendar days before the commencement of the First Piece Inspection, the Contractor shall notify the Contracting Officer, in writing, of the time and location of the testing so that the Government may witness the tests.

E.1.2.2 Following First Piece Inspection and Government testing, the Contractor shall be responsible for any changes, modifications and corrections of defects deemed necessary to bring the item into conformance with requirements.

E.2 First Article testing: (Include FAR 52.209-4)

E.2.1 The Government will test one tow bar at a Government test site. It will be tested as follows to verify processes and workmanship:

E.2.2 Static Pull Test: The tow bar will be static pull tested. Each leg of the tow bar will be individually pull tested to 120,000 lbs.

E.2.3 Following the test, the tow bar will be inspected for signs of weld cracking, distortion, or any other damage.

E.2.4 Failure of the tow bar to successfully complete the First Article test will result in disapproval of the First Article (see FAR 52.209-4).

E.2.5 All transportation costs necessary to ship the test item to and from the test site shall be the responsibility of the contractor.

E.3 Change of Suppliers. If a source of supply change is made for any Tow Bar component after First Article approval, the Government reserves the right to conduct additional inspections and tests prior to acceptance of any Tow Bars containing the new component. The contractor shall be responsible for costs of inspection and test to assure the components meet specification criteria. Any production or delivery delays caused by the additional inspection/testing shall not be excusable delays under this contract. Further, such delays shall not form the basis for adjustments in process or delivery schedules.

E.4 Welding Requirements.

E.4.1 Welding procedures shall comply with MIL-STD-1261, Class 3.

E.4.2 Welder Qualification. The contractor may use his current method in effect at the time of contract award for welder qualification. The contractor shall be responsible for determining that automatic welding equipment and operators are capable of consistently producing quality welds in accordance with the prepared welding procedures. If requested, the contractor shall make available all welder qualification documentation.

E.5 Inspection Equipment. The contractor shall be responsible to supply and maintain all inspection and test equipment necessary to assure the vehicle system and components conform to contract requirements. All inspection equipment shall be available for use at the start of production. The contractor shall make available to the government applicable and necessary inspection equipment for use during vehicle system inspection. The government will return all inspection equipment upon completion of inspection. The contractor shall apply best commercial practice to maintain the inspection and test equipment used in the inspection of the vehicle systems.

E.6 Inspection Records. The contractor shall maintain and make available to the government upon request, all records of examinations and tests performed on material used to produce each vehicle system. This documentation shall describe deficiencies found during inspection and all corrective action undertaken to correct these deficiencies. These records shall be maintained for a period of four years following completion of the contract.

E.7 Certifications. All certifications provided by the contractor shall include appropriate supporting documentation such as, but not limited to: test data, material analysis, drawings, purchase orders, specifications, etc. In the event that particular certifications are not acceptable to the government, the contractor shall conduct additional examinations and tests and/or provide additional documentation as required to verify conformance at no additional cost to the government.

Subcontracting does not relieve the contractor from providing all the necessary supporting documentation for all certifications provided to the Government. Also, the contractor shall provide a new or updated certification whenever a change is made in a supplier when the change is relevant to the certification.

*** END OF NARRATIVE E 001 ***

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ ITEM MIPR	ACRN	OBLG STAT/ JOB ORD NO		PRIOR AMOUNT	INCREASE/DECREASE AMOUNT		CUMULATIVE AMOUNT
0302AD	X14GX2CAX1 13519800000 X14GXDC00000	AA	2 4GX2CA	\$	0.00	\$	237,824.00	\$ 237,824.00
0302AE	X14GX2CBX1 13519800000 X14GXDC00000	AA	2 4GX2CB	\$	0.00	\$	4,756.00	\$ 4,756.00
0302AF	X14GX2CCX1 13519800000 X14GXDC00000	AA	2 4GX2CC	\$	0.00	\$	476.00	\$ 476.00
0302AG	X14GX2CDX1 13519800000 X14GXDC00000	AA	2 4GX2CD	\$	0.00	\$	19,270.00	\$ 19,270.00
NET CHANGE					\$		262,326.00	

SERVICE NAME	NET CHANGE BY ACRN	ACCOUNTING CLASSIFICATION	ACCOUNTING STATION	INCREASE/DECREASE AMOUNT
Army	AA	21 42020000045R5R07P1351982571 S20113	W56HZV	\$ 262,326.00
NET CHANGE				\$ 262,326.00

	PRIOR AMOUNT OF AWARD	INCREASE/DECREASE AMOUNT	CUMULATIVE OBLIG AMT
NET CHANGE FOR AWARD:	\$ 27,557.40	\$ 262,326.00	\$ 289,883.40